

Fig. 1 MPEG picture frame coding types

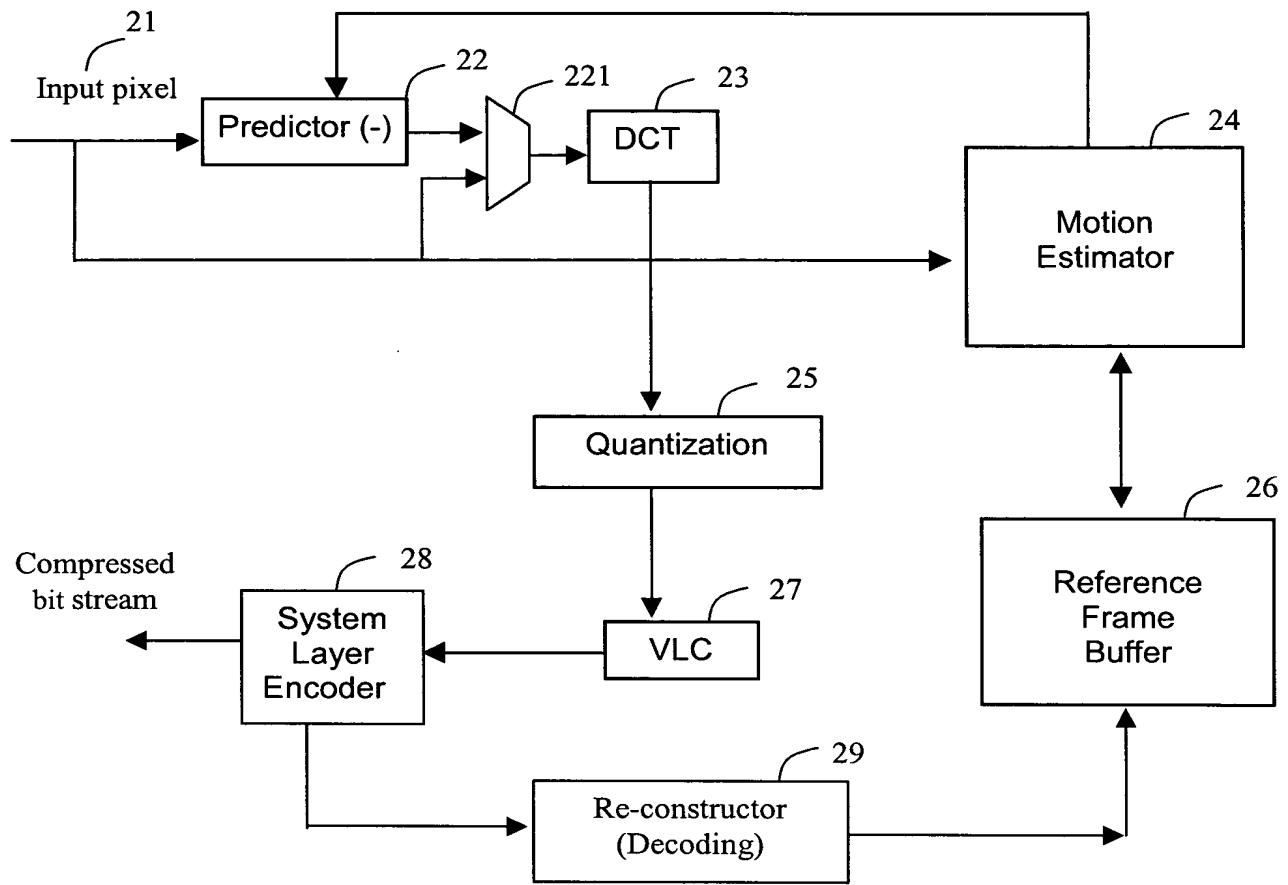


Fig. 2 Block diagram of the video compression

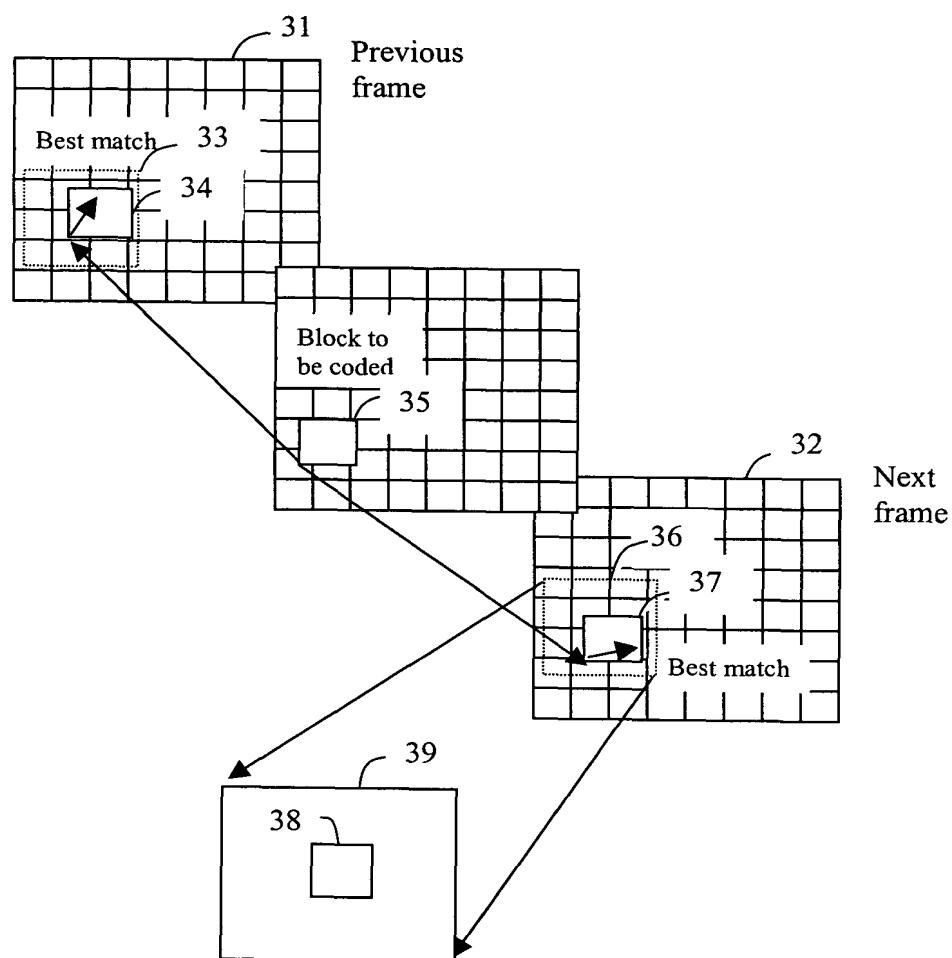


Fig. 3 Best match block searching

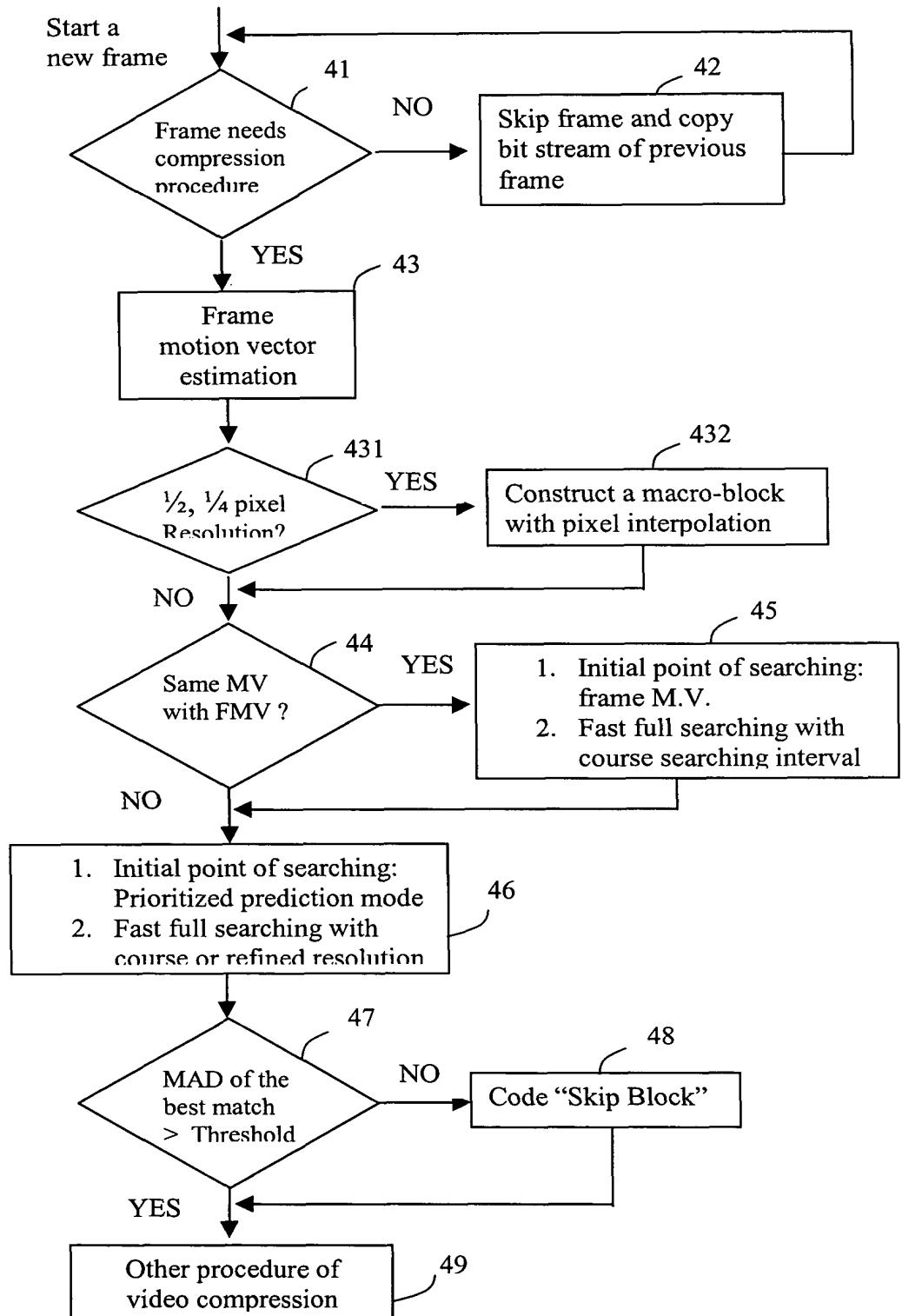
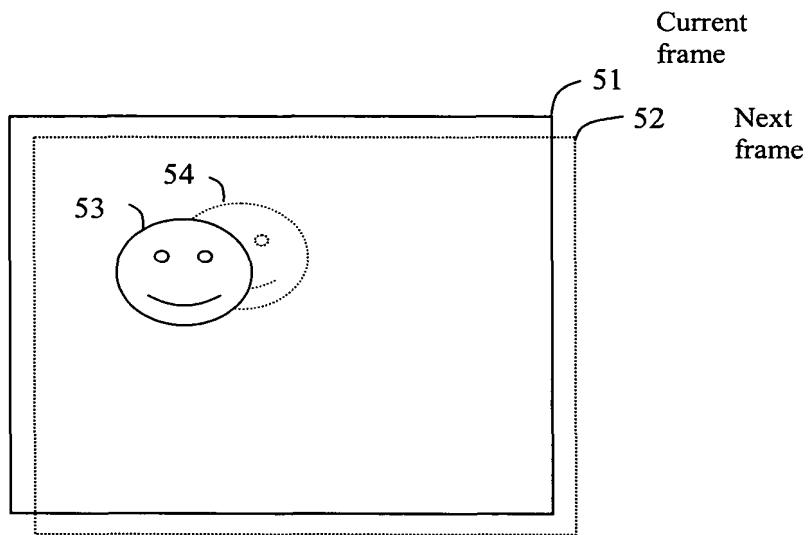
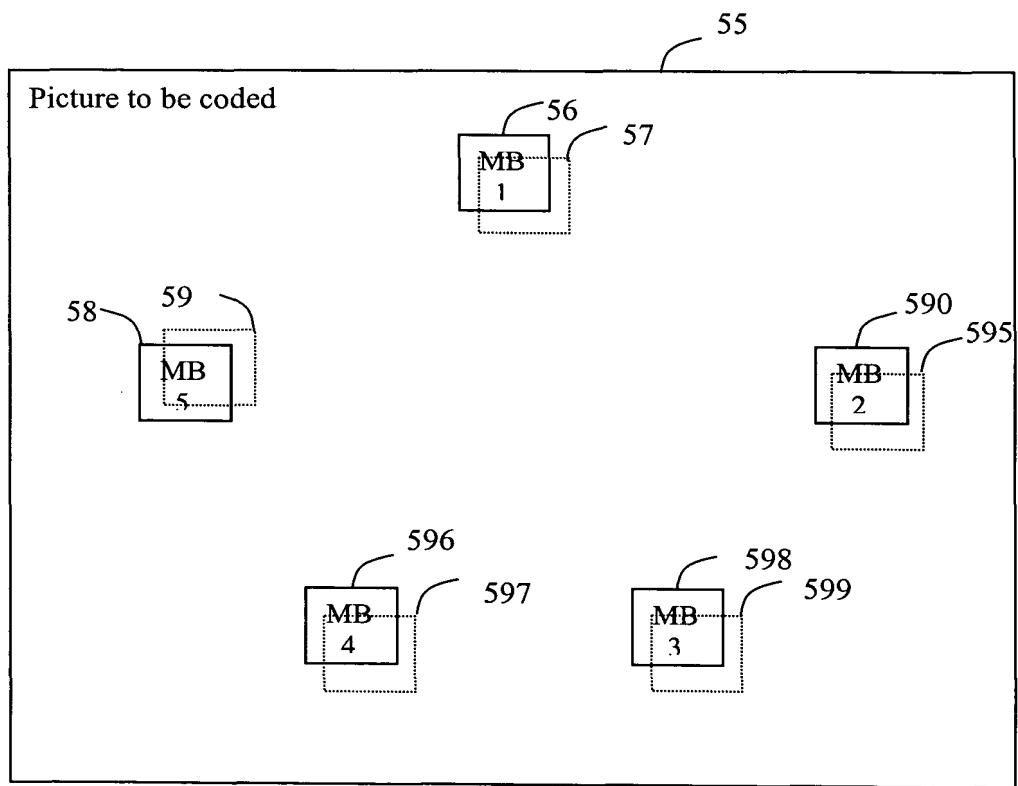


Fig. 4 The efficient video compression procedure



5A. Example of frame movement



5B. Majority MV determines the FMV

Fig. 5 Frame movement estimation

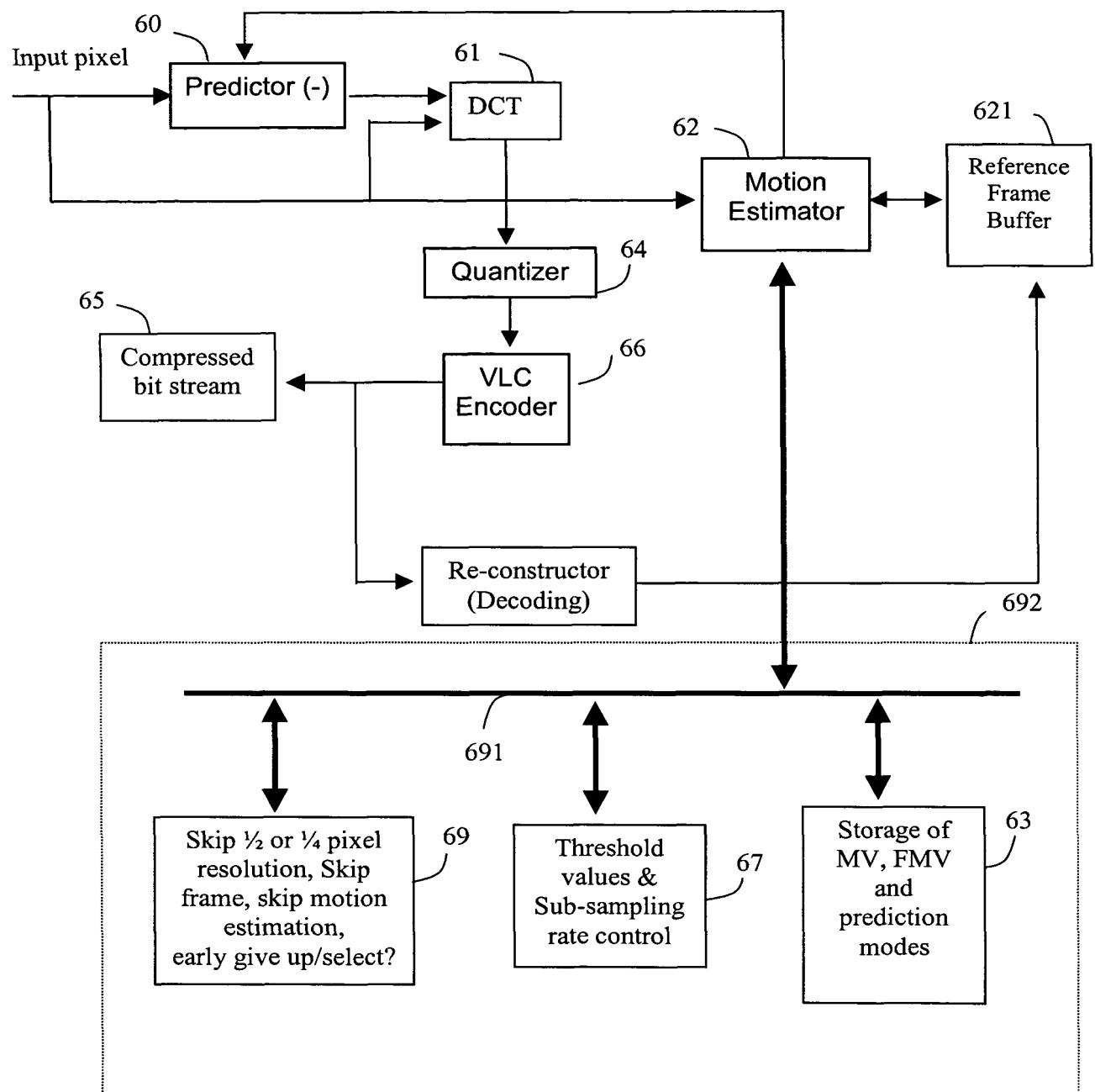


Fig.6 Block diagram of the efficient video compression

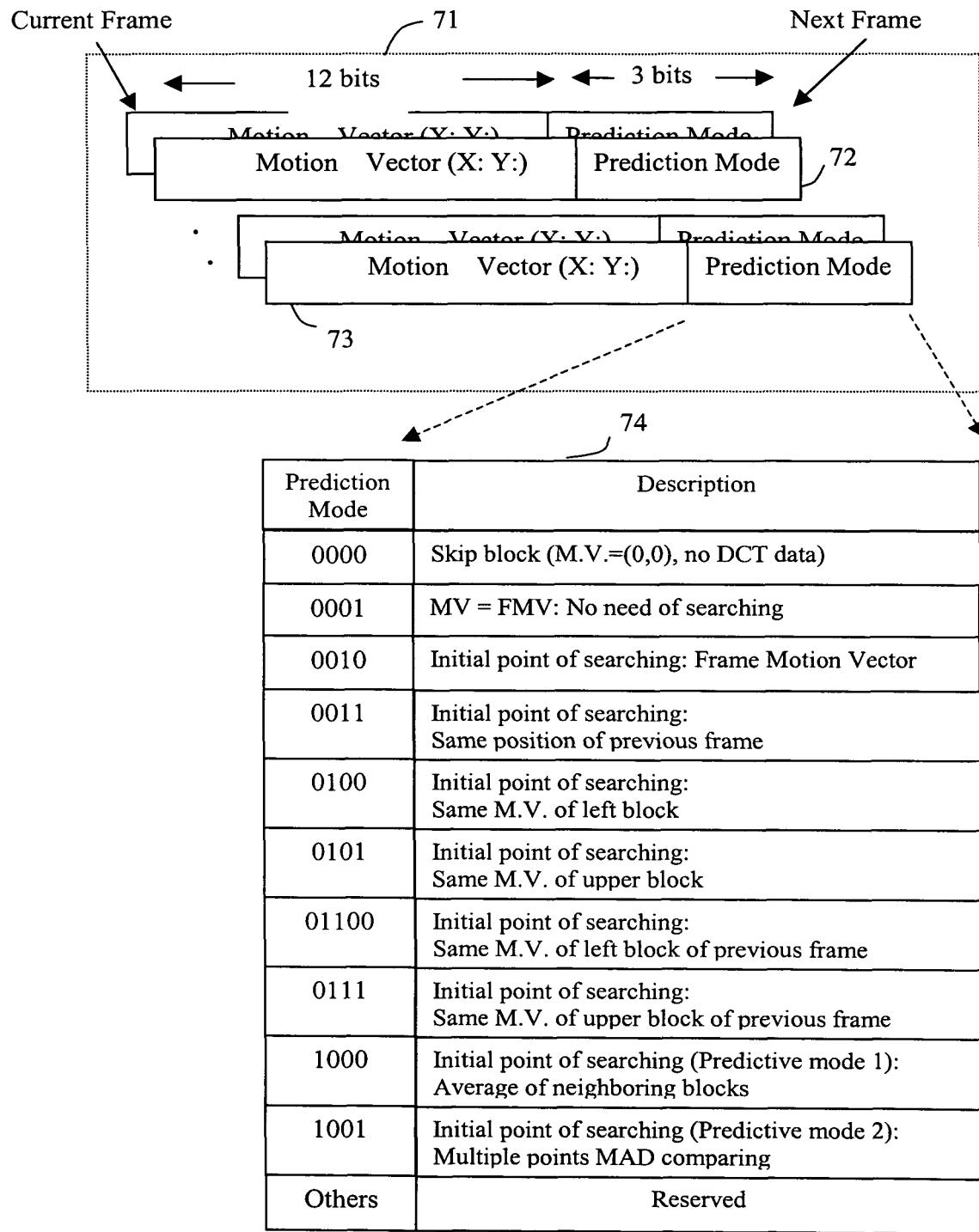


Fig. 7 Format of the motion vector and next frame's prediction mode

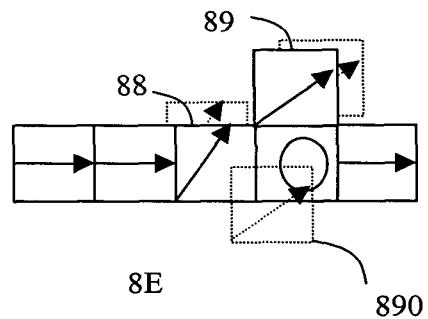
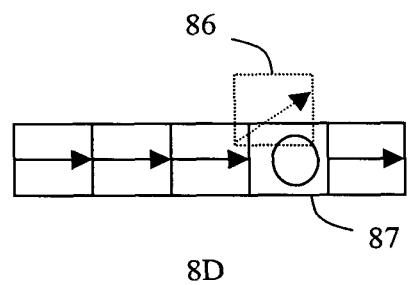
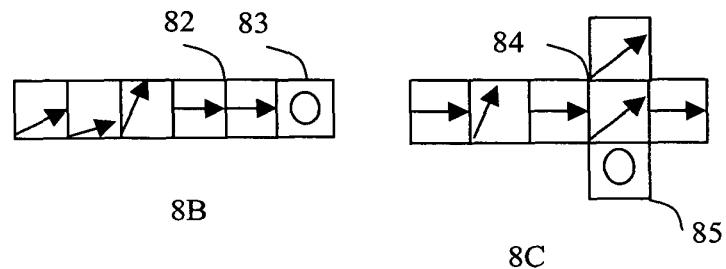
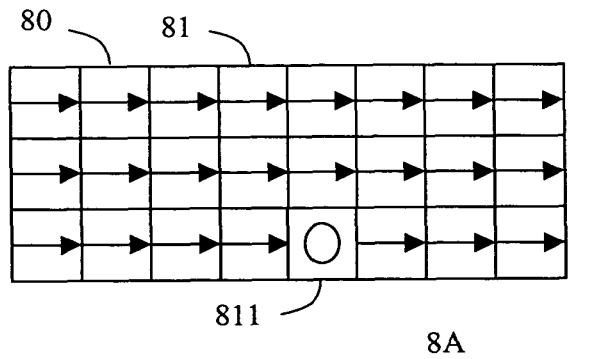


Fig. 8 Motion estimation prediction modes

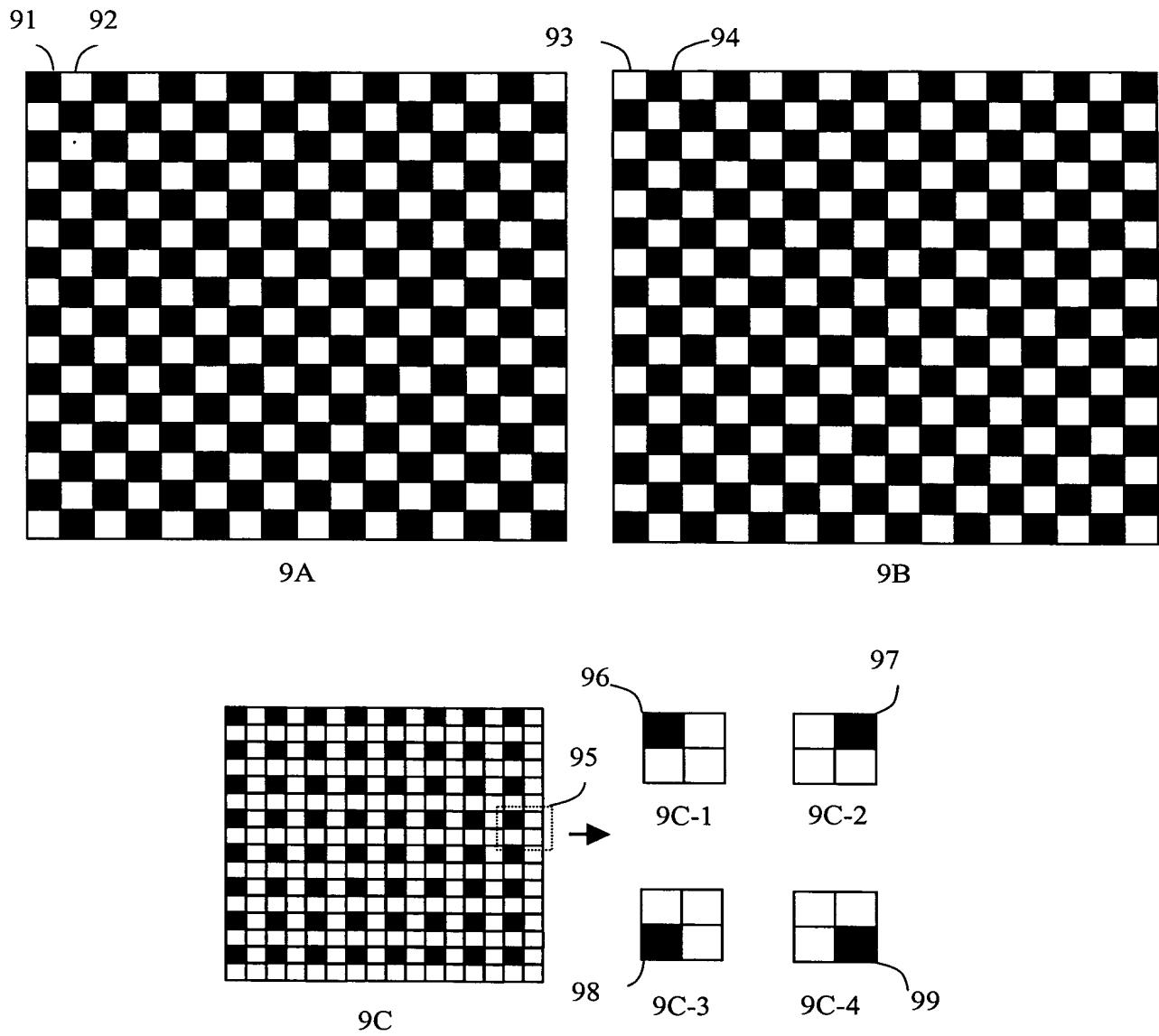


Fig. 9 Sub-sampling with rotating sampling position, 2:1 and 4:1 as examples